their school work, and the schools would be benefited by having more teachers of the type of this author.

Ruler and Compasses. By HILDA P. HUDSON. London: Longmans, Green & Co. Pp. 143.

Miss Hudson in this little volume starts with Euclid's three postulates and shows that the use of the ruler corresponds with the linear equations and the use of the compasses with the quadratic equation. The answer then to the question as to what constructions are possible with ruler only and what constructions with the ruler and compasses, which answer geometry failed to give, is furnished by analysis. In other words, those problems and those alone can be solved by ruler only, which can be made to depend on a linear equation; and those problems and those alone can be solved by ruler and compasses, which can be made to depend on an algebraic equation, whose degree is a power of 2 and whose roots can be found by rational operations and the extraction of square roots only. The book contains very much of interest and profit for teachers of geometry.

Differential and Integral Calculus. By CLYDE E. LOVE. New York: The Macmillan Company. Pp. 339. $2.10.

This appears a very good book on the subject, for the student using it should get a clear understanding of the various principles as he proceeds. The treatment of some topics would seem perhaps too abbreviated but brevity must be characteristic when the whole course, including three chapters on differential equations, is contained within the compass of 339 pages. The book is carefully written and appears to be well adapted for class use.

Quartic Surfaces. By C. M. JESSAP. Cambridge: The University Press. G. P. Putnam's Sons, American representatives. Pp. 198. $3.00.

The aim of the author in this volume is to give a brief account of the principal known properties of quartic surfaces possessing nodes or nodal curves. On account of Hudson's work on "Kummer's Quartic Surface" a treatment of that surface with its special forms is omitted here. Ruled quartic surfaces are also omitted.

The Introduction gives a brief summary of all the leading results discussed later in the volume. The chapter headings are as follows: I. Quartic Surfaces with Isolated Singular Points; II. Desmic Surfaces; III. Quartic Surfaces with a Double Conic; IV. Quartic Surfaces with a Nodal Conic and Additional Nodes; V. The Cyclide; VI. Surfaces with a Double Line, Plücker's Surface; VII. Quartic Surfaces with an Infinite Number of Conics; Steiner's Surface; The Quartic Monoid; VIII. The General Theory of Rational Quartic Surfaces; IX. Determinant Surfaces.